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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/718,430	11/20/2003	Ganping Ju	SEAG 63413	9648
Robert P. Lena	** *	EXAMINER		
	osick & Gordon		HEINZ, ALLEN J	
One Oxford Centre, 38th Floor 301 Grant Street			ART UNIT	PAPER NUMBER
Pittsburgh, PA	15219		2627	
SHORTENED STATUTO	RY PERIOD OF RESPONSE	MAIL DATE	DELIVERY MODE	
3 MONTHS		03/27/2007	PAPER	

## Please find below and/or attached an Office communication concerning this application or proceeding.

If NO period for reply is specified above, the maximum statutory period will apply and will expire 6 MONTHS from the mailing date of this communication.

		Application No.	Applicant(s)				
Office Action Summary		10/718,430	JU ET AL.				
		Examiner	Art Unit				
		A. J. HEINZ	2627				
Period fo	The MAILING DATE of this communication app or Reply	ears on the cover sheet	with the correspondence a	ddress			
WHIC - Exte after - If NC - Failu Any	ORTENED STATUTORY PERIOD FOR REPLY CHEVER IS LONGER, FROM THE MAILING DANSIONS of time may be available under the provisions of 37 CFR 1.13 SIX (6) MONTHS from the mailing date of this communication. Depend for reply is specified above, the maximum statutory period were to reply within the set or extended period for reply will, by statute, reply received by the Office later than three months after the mailing ed patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUN 36(a). In no event, however, may will apply and will expire SIX (6) M cause the application to become	NICATION. a reply be timely filed  ONTHS from the mailing date of this of ABANDONED (35 U.S.C. § 133).				
Status	· · · · · · · · · · · · · · · · · · ·						
. —	Pennancius to communication(s) filed on 00 M	oroh 2007	• •				
1)⊠	Responsive to communication(s) filed on <u>09 M</u>						
2a)⊠	·—	action is non-final.	ottors, proceedition as to th	o morite is			
3)[_	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.						
	closed in accordance with the practice under E	х рапе Quayle, 1935 С	.D. 11, 453 O.G. 213.				
Disposit	ion of Claims						
4)⊠	Claim(s) 1-3,5-11,13-17,19-23 and 25-29 is/are	e pending in the applica	tion.				
	4a) Of the above claim(s) is/are withdrawn from consideration.						
5)🖂	Claim(s) 1-3,5-11,13-17,19-23 and 25 is/are all	lowed.					
6)⊠	6)⊠ Claim(s) <u>26-29</u> is/are rejected.						
7)							
8)	Claim(s) are subject to restriction and/or	r election requirement.		. •			
Applicati	ion Papers						
• -		r	•	· •			
9) The specification is objected to by the Examiner.							
10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner.  Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).							
				PED 1 121(d)			
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).  11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.							
11)	The bath or declaration is objected to by the Ex	ammer. Note the attach	led Office Action of form F	10-132.			
Priority ι	under 35 U.S.C. § 119						
12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).							
· —	☐ All b)☐ Some * c)☐ None of:						
٠,							
<ul> <li>2. Certified copies of the priority documents have been received in Application No</li> <li>3. Copies of the certified copies of the priority documents have been received in this National Stage</li> </ul>							
	3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).						
* (			ot received				
* See the attached detailed Office action for a list of the certified copies not received.							
A44a-E	A(a)						
Attachmen		A)	w Summany /DTO 4421				
	ce of References Cited (PTO-892) te of Draftsperson's Patent Drawing Review (PTO-948)		w Summary (PTO-413) lo(s)/Mail Date				
	mation Disclosure Statement(s) (PTO/SB/08)	5) D Notice of	of Informal Patent Application				
	er No(s)/Mail Date	6) Other: _	<del></del> ·				

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1. Claims 26-29 are rejected under 35 U.S.C. §112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

In the instant claims, claim 26 in the last two lines, describes a result which is incomplete, i.e. "to cause the phase transition material".

2. The following is a quotation of the appropriate paragraphs of 35 U.S.C. §102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless --

- (a) the invention was known or used by others in this country, or patented or described in a printed publication in this or a foreign country, before the invention thereof by the applicant for a patent.
- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- (e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.
- 3. Claims 26&28 are rejected under 35 U.S.C. §102(b) as being anticipated by Ito.

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With reference to Addendum A (see first office action), the conductors in coils 808 are composed of transmission lines with at least one thereof being adjacent the phase transition material in layer 805; to wit, 'adjacent' ...to lie close or near... may or may not imply contact but always implies absence of anything of the same kind in between the adjacent features.

- 4. The following is a quotation of 35 U.S.C. §103(a) which forms the basis for all obviousness rejections set forth in this Office action:
  - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 5. Claim 29 is rejected under 35 U.S.C. §103(a) as being unpatentable over Ito as applied to claim 26 above, and further in view that official notice is taken of the well known use of tapered write poles in transducers.

For example note the tapered pole in Ito's figure 3.

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6. For a complete response applicant should identify how the claimed structure of his invention defines over **all** the art of record.

Moreover, where the applicant disagrees with the reasoning and/or application of the prior art on critical points of the claims, they should identify how the claimed structure of their invention defines over **all** the art of record not just the applied art.

Where applicant believes that the art is redundant and/or superfluous relative to the critical aspects of the claimed invention the applicant may simply state so in rebuttal summary.

- 7. Claims 1-3,5-11,13-17,19-23,25 are allowed.
- 8. Claim 27 would be allowable if rewritten to overcome the rejection(s) under 35 U.S.C. §112 set forth in this Office action and to include all of the limitations of the base claim and any intervening claims.
- 9. If applicant has filed an information disclosure statement and has not received an office action that contain an initialed-off copy (or copies) of all such filed IDS's (or at least a comment to the disposition of such IDS'S in the body of the

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office action itself) applicant should apprise the examiner of such missing documentation [to the IDS's] in response to this office action so that the examiner can take appropriate action to supply same to the applicant.

10. Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, THIS ACTION IS MADE FINAL. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

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11. Any inquiry concerning this communication or earlier communications from the examiner should be directed to A. J. HEINZ whose telephone number is (571) 272-7587. The examiner can normally be reached on M-F 9:30-6:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, DWAYNE BOST can be reached on (571)272-7023.

The fax phone number for the organization where this application or proceeding is assigned is (571)273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

A. J. HEINZ Primary Examiner Art Unit 2627

A. J. Jerry